

Word Quest

Find the following terms in your Interactive Worktext on pages 5–24. Underline or highlight the word in your Interactive Worktext each time you find it in the lesson. Complete the table below by writing a sentence from the text in which the word occurs, and then write your own sentence with the word in it.

TERMS	CONTEXT SENTENCE	YOUR OWN SENTENCE
frame of reference pg. _____		
vector pg. _____		
velocity pg. _____		
acceleration pg. _____		
gravity pg. _____		
OTHER TERMS	CONTEXT SENTENCE	YOUR OWN SENTENCE
displacement pg. _____		
instantaneous pg. _____		
magnitude pg. _____		

Review the words in the context sentences on this page. Underline or circle any you do not know. Working with a partner, find the definitions of these words. Record them in your own sentences in your Evidence Notebook.

You Write About It

1. Explain how to find the acceleration of an object that has one-dimensional horizontal motion.

2. Give an example of an object that has positive acceleration, an example of an object that has negative acceleration, and an example of an object that has zero acceleration.

3. Make a claim, and support it with evidence and reasoning.

Claim: Motion in two dimensions can be analyzed as the combination of

Evidence 1: One fact I know that supports this is

Evidence 2: Another fact I know that supports this is

Reasoning: The facts support the claim because

Home Connection

Have students take this page home to share with family members. Encourage them to share what they have learned about motion in one and two dimensions.



frame of reference

A system for specifying the precise location of objects in space and time.

marco de referencia

Sistema para especificar la ubicación precisa de los objetos en el espacio y el tiempo.



vector

A physical quantity that has both magnitude and a direction.

vector

Cantidad física que tiene tanto una magnitud como una dirección.



velocity

The speed of an object in a particular direction.

velocidad

Velocidad de un objeto en una dirección determinada.



acceleration

The rate at which velocity changes over time; an object accelerates if its speed, direction, or both change.

aceleración

Tasa de variación de la velocidad a lo largo del tiempo; un objeto acelera si varían la velocidad, la dirección o ambos.



gravity

A force of attraction between objects that is due to their masses and that decreases as the distance between the objects increases.

gravedad

Fuerza de atracción entre objetos producida por sus masas y que disminuye a medida que aumenta la distancia entre los objetos.



